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Approved For Release 2003/09/30 : CIA-RDP78T04759A009800010179-3

TOP SECRET

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17 November 1971

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MEMORANDUM FOR:

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SUBJECT : Status of HF/DF Antennas at Zelenogradsk and Vnukovo, USSR

REFERENCES : NSA/PO4/SPO/R-049-72
(NPIC Project 251245)

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1. In response to the referenced requirement, an analysis of [] photography of [] revealed that [] Zelenogradsk HF/DF Facility (Zelenogradsk Radio Communications Receiver Station, [] and Vnukovo HF/DF Facility [] are complete and apparently operational. Limited interpretability of the photography precluded accurate mensuration of the antenna elements at both facilities.

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2. The Vnukovo facility is similar to the Zelenogradsk facility. The control buildings are similar in appearance. Each facility has a circle of approximately 52 masts with similar mast spacing. However, no radial ground system or inner circle of masts were observed at the Zelenogradsk facility.

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ZELENOGRADSK HF/DF FACILITY

3. [] "Probable Naval COMINT Station Zelenogradsk, USSR," December 1968 (TOP SECRET []) is the basic report for Zelenogradsk HF/DF Facility. Subsequent [] photography has revealed that construction is complete on this HF/DF facility and its associated intercept sites, and all components appear to be operational.

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4. Zelenogradsk HF/DF Facility consists of a central control building, an inner circle of approximately 52 masts, and a circular perimeter fence (Attachment 1). An exact determination of the number, height, and separation of the masts cannot be obtained from available [] photography.

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VNUKOV HF/DF FACILITY

5. Vnukovo HF/DF Facility consists of a central control building, an inner circle of masts of an undetermined circumference, an outer circle of approximately 52 masts, a radial ground system, and a circular perimeter fence (Attachments 2 and 3).

Declassification Review by NIMA/DoD

GROUP 1: EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

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6. The lack of [] photography of good interpretability precludes a description of the inner circle of masts as to number, height, circumference, and spacing, as well as measurement of heights for the outer circle of masts (Attachment 3).

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7. The Puchkovo Radio Communications Receiver Station [] at 55-29-30N 037-15-00E is associated with the Vnukovo HF/DF Facility. The two cable-connected facilities are 0.5 nautical miles apart and derive their support from a centrally located support area (Attachment 2). The Puchkovo station consists of eighteen 2-2-2 fishbone antennas, six horizontal dipole antennas, a central control building, and a building under construction. Salient features of the HF antennas at the Puchkovo station are given in Table 1 (Attachment 4).

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8. The separately secured support area (Attachment 2) consists of two barracks, one administration building, two storage buildings, one heating plant/steampant, approximately eight support buildings, and an athletic field.

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9. This project is considered to be complete. Any further inquiries should be directed to [] NPIC/IEG/MSD/DMEB, IDS Code 143, extension []

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Attachments: a/s

Distribution:

Cy 1&2 - TCO/NSA/PO4/SPO w/ Attachment
 3&4 - NPIC/IEG/MSD
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